

> d.his

(FILE 'USPAT' ENTERED AT 14:35:47 ON 14 FEB 97)

L1	147924	S	ACCOUNT?
L2	98982	S	L1 AND SYSTEM
L3	794	S	LEDGER
L4	188	S	L2 (P) L3
L5	188	S	L2(P)L3
L6	31	S	(TRANSMIT? OR SHARE) (4W) (FINANC?) (4W) (INFORM? OR DATA)
L7	1	S	L5 AND L6
L8	9597	S	ACCOUNTING
L9	505	S	L8 (1W) SYSTEM
L10	11	S	L8 (1P) ACCRUAL
L11	58	S	BILL PAYMENT
L12	0	S	L11 (W) ELECTRONIC
L13	6	S	ELECTRONIC BILL PAYMENT
L14	0	S	AUTOMATIC BILL PAYMENT

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(FILE 'USPAT' ENTERED AT 14:35:47 ON 14 FEB 97)

L1 147924 S ACCOUNT?
L2 98982 S L1 AND SYSTEM
L3 794 S LEDGER
L4 188 S L2 (P) L3
L5 188 S L2(P)L3
L6 31 S (TRANSMIT? OR SHARE) (4W) (FINANC?) (4W) (INFORM? OR DATA)
L7 1 S L5 AND L6
L8 9597 S ACCOUNTING
L9 505 S L8 (1W) SYSTEM
L10 11 S L8 (1P) ACCRUAL
L11 58 S BILL PAYMENT
L12 0 S L11 (W) ELECTRONIC
L13 6 S ELECTRONIC BILL PAYMENT
L14 0 S AUTOMATIC BILL PAYMENT

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.(FILE 'USPAT' ENTERED AT 18:29:57 ON 12 FEB 97)

L1 3 S ACCRUAL ACCOUNTING

L2 3 S ACCRUAL ACCOUNT?

L3 110 S ACCRUAL

L4 6 S L3 AND LEDGER

FILE 'USPAT' ENTERED AT 17:18:39 ON 29 NOV 95

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* * * * *
*           W E L C O M E   T O   T H E           *
*           U . S .   P A T E N T   T E X T   F I L E           *
* * * * *

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=> s ledger!

L1 164 LEDGER!

=> s (alternate or subsidiary or secondary)

203547 ALTERNATE

7656 SUBSIDIARY

200001 SECONDARY

L2 382030 (ALTERNATE OR SUBSIDIARY OR SECONDARY)

=> s 364/clas

L3 58543 364/CLAS

=> s (l1 and l2) and l3

L4 4 (L1 AND L2) AND L3

=> disp l4 1-,cit,kwic

1. 5,459,657, Oct. 17, 1995, Employee time entry and accounting system; Stephen A. Wynn, et al., **364/401** [IMAGE AVAILABLE]

US PAT NO: 5,459,657 [IMAGE AVAILABLE]

L4: 1 of 4

US-CL-CURRENT: **364/401**

SUMMARY:

BSUM(10)

As . . . employee must be collected and delivered to the accounting department where the time data is manually input into either accounting **ledgers** or a computer system.

SUMMARY:

BSUM(17)

In . . . in the cafeteria for each employee must then be transmitted to the accounting department for manual entry into either accounting **ledgers** or a computerized system.

DETDESC:

DETD(28)

FIG. . . . from the memory files of the computer 104 and sends this information to the appropriate time clock 101. As a **secondary** function, the front end process 190 verifies correct transmission of data to and from the concentrators 102

using well known. . .
DETDESC:

DETD(154)

The . . . sent to a central computer thereby minimizing the need and cost of additional entry of these hours into either account **ledgers** or a computerized system.

2. 5,227,967, Jul. 13, 1993, Security instrument data system without property inapplicable nulls; Stephen C. Bailey, **364/408** [IMAGE AVAILABLE]

US PAT NO: 5,227,967 [IMAGE AVAILABLE] L4: 2 of 4
US-CL-CURRENT: **364/408**

3. 5,117,356, May 26, 1992, Automated ledger account maintenance system; Ronald Marks, **364/406** [IMAGE AVAILABLE]

US PAT NO: 5,117,356 [IMAGE AVAILABLE] L4: 3 of 4
US-CL-CURRENT: **364/406**

=> s 5117356/pn
L5 1 5117356/PN

=> disp 15 all
ENTER ANSWER NUMBER OR RANGE (1):1

5,117,356 [IMAGE AVAILABLE] May 26, 1992 L5: 1 of 1
Automated ledger account maintenance system

INVENTOR: Ronald Marks, Philadelphia, PA
ASSIGNEE: DNS, Inc., Philadelphia, PA (U.S. corp.)
APPL-NO: 07/387,134
DATE FILED: Jul. 28, 1989
INT-CL: [5] G06F 15/30
US-CL-ISSUED: 364/406
US-CL-CURRENT: 364/406
SEARCH-FLD: 364/406
REF-CITED:

U.S. PATENT DOCUMENTS		
3,749,892	7/1973	Stenning 364/406
4,642,767	2/1987	Lerner 364/406
4,843,548	6/1989	Carpenter 364/406

OTHER PUBLICATIONS

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Is Real Time Software Ahead of Time?, Steve Cowherd, Accounting Today, Systems Management, Dec. 14, 1987.

Numbers Gain New Meaning, Shawn Bryan, Accounting and Financial Systems, Computerworld, Jul. 20, 1987.

ART-UNIT: 231
PRIM-EXMR: Dale M. Shaw

ASST-EXMR: David Huntley
LEGAL-REP: Dann, Dorfman, Herrell and Skillman

ABSTRACT:

An automated ledger account maintenance system provides up-to-the-minute balances in all ledger accounts whenever data relating to a completed transaction is entered. The system is implemented on a general purpose computer and includes a predefined data file structure including ledger account data files corresponding to the ledger accounts and transaction record data files corresponding to transaction journals. Compliance with user definable accounting procedures is ensured through the use of an accounting control table that contains symbolic codes used by the recordkeeping procedures to authorize and control the creation and updating of the ledger account and transaction record data files. Cross-referencing and indexing of ledger account records, transaction records, and the second control records is provided to ensure a high degree of resistance to unauthorized alteration of the data files and to provide for traceability of all entries and postings.

17 Claims, 8 Drawing Figures

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U.S. Patent & Trademark Office LOGOFF AT 17:29:35 ON 29 NOV 95